IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

	1	IN THE UNITED STATES FATEIN	I AND I KADEMAKK OFFICE				
Applicants: Application No.: Date Filed: Title:		Olubunmi O. Adetutu et al.	Group Art Unit: Examiner:				
		Concurrently Herewith	Examinor.				
		•	ONTAINING DIFFUSION BARRIER				
		INFORMATION DISCLOS	URE STATEMENT (IDS)				
	ssioner Fo dria, VA	or Patents 22313					
SIR:							
States P for subs patent a	n attache Patent and mitting a applicatio	d Form PTO/SB/08 and/or subsequently Trademark Office. Pursuant to the Office copy of each cited U.S. patent and each I	pliance with 37 C.F.R. §§1.97 and 1.98, the references identified herein, are for consideration by the United e waiving the requirement under 37 CFR 1.98 (a)(2)(i) U.S. patent application publication for all U.S. national atternational applications that have entered the national e reference are not submitted herewith.				
I.	COPIES a.⊠	A legible copy of (i) each U.S. and foreign patents; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed,					
	b. 🗌	enclosed herewith were previously cited	mation which are listed on PTO/SB/08 which are not by or submitted to the PTO in one of the following for an earlier filing date under 35 U.S.C. §120:				
		U.S. Serial Number	U.S. Filing Date				
II.	CONCI	SE EXPLANATION OF THE RELEVA	NCE (check at least one box)				
	a. 🛛	Except as may be indicated below in (b)	of this section, all of the patents, publications or other				
	b. 🔲	information are in the English language (concise explanation not required). A concise explanation of the relevance of all patents, publications or other information listed					
	c. 🗌	that is not in the English language is as f The following additional information is	ollows: provided for the Examiner's consideration:				
ш. 🗆	The Exa		nding application(s) contain(s) subject matter that may g this (these) applications to the Examiner's attention,				
	Serial N	o. Filing Date	Art Unit				
		FE	<u>ES</u>				
IV. 🛚	THIS II a.⊠	prosecution application under § 1.53(c	§1.97(b): (check one box) e of a national application other than a continued l) (37 C.F.R. §1.97(b)(1)). No fee or statement is				
	b. 🔲		y of the national stage as set forth in § 1.491 in an				
	c.		7(b)(2)). No fee or statement is required. Action on the merits (37 C.F.R. §1.97(b)(3)). No fee				
	d.□	before the mailing date of a first Office	ce Action after the filing of a request for continued 1.97(b)(4)). No fee or statement is required.				

V. 🗆	before t	he mailir 7 C.F.R.)). No state	§1.311, or an action that otherw	Action under 37 C.F.R. §1.113, a Notice of Allowance ise closes prosecution in the application (See 37 C.F.R. account 502117 the fee set forth in 37 C.F.R. §1.17(p).
VI. 🗌		efore pay	ING FILED UNDER 37 C.F.R. ment of the issue fee and is account under 37 C.F.R. §1.97(e) as deposit account 502117 the peti	mpanied by the following: provided below; and
VII.	STATE The unc a. b. c.	dersigned each ite Patent (of IDS; no item Patent (stateme known filing of some of foreign informa a counte to the r informa a counte making	Office in a counterpart foreign apportunity of information contained in the Office in a counterpart foreign and after making reasonable inquito any individual designated in this statement, or the items of information contained application contained in the IDS was cited application in the items of information, the undertion contained in the IDS was cited application or, to reasonable inquiry, no item of ital designated in 37 C.F.R. 1.56	the IDS was cited in a communication from a foreign oplication not more than three months prior to the filing oplication, and to knowledge of the person signing the iry, no item of information contained in the IDS was 37 C.F.R. 1.56(c) more than three months prior to the ned in the IDS were cited in a communication from a formation, the undersigned states that each item of the in a communication from a foreign Patent Office in the three months prior to the filing of this IDS. As existing the three months prior to the filing of this remaining the three months prior to the filing of this remaining the knowledge of the person signing the statement after information contained in the IDS was known to any of communication from the filing of this
VIII.	PAYMI	Please of fee(s). If Appli Commis	t in the amount of is etcharge Deposit Account 502117 cant has overlooked any additions in the second can be seen as a contract of the contract of the can be seen as a contract of the contract of t	nclosed for the above-identified fee(s). in the amount of \$180.00 for the above-indicated nal fees, or if any overpayment has been made, the redit or debit Deposit Account 502117. or Deposit Account charges and debits.
	te statuto	ry prior		interests of candor and without any admission that they cipates the invention or which would render the same rdinary skill in the art.
under th	etermine	d that the	is IDS has been filed under the	is IDS, he/she is requested to contact the undersigned. wrong rule, the PTO is requested to consider this IDS charge the appropriate fee to Deposit Account No. Respectfully submitted, Olubunmi O. Adetutu et al.
Custome		NC. er 23125		Michael J. Balconi-Lamica Attorney for Applicant(s) Reg. No. 34,291 Tel. 512.996.6839
Enclosu	res:		PTO/SB/08 References Foreign Search Report Other:	

		Complete if Known		
		Application Number		
INFORMA	TION DISCLOSURE	Filing Date	Concurrently Herewith	
STATEMI	ENT BY APPLICANT	First Named Inventor	Olubunmi O. Adetutu	
OTATEM	ENT DI ALI EIOANI	Group Art Unit		
(use as many sheets as ned	ressary)	Examiner Name		
Sheet	of	Attorney Docket Number	SC12752TP	

U. S. PATENT DOCUMENTS						
Examiner Initials*	Cite No. 1	Document Number Number -Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
		744.49				

FOREIGN PATENT DOCUMENTS							
Examine r Initials*	Cite No. 1	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Т 6	

	NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T2	
	AA	Al-Shareef et al., "Device Performance of in-situ Steam Generated Gate Dielectric Nitrided by Remote Plasma Nitridation," Applied Physics Letters, June 11, 2001, Vol. 78, No. 24, pp. 3875-3877/		
	AB	Nicollian et al., "Extending Reliability Scaling Limit of SiO2 Through Plasma Nitridation," IEDM Tech. Dig., 2000, pp. 545-548.		
	AC	Tseng et al., "Ultra-Thin Decoupled Plasma Nitridation (DPN) Oxynitride Gate Dielectric for 80-nm Advanced Technology," IEEE Electron Device Letters, December 2002, Vol. 23, No. 12, pp. 704-706.		

Examiner	 Date	
Signature	Considered	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation, if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English Language Translation is attached.

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